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Abstract

A master node in a packet ring network periodically sends a packet containing a discovery marker into the packet ring network. As each node in turn receives the packet, each adds its own discovery marker, which contains its topology information, to the packet, saves the topology information of others, and resends the packet to the next node in the ring. Eventually, the master node receives the packet containing a chain of discovery markers for all active nodes terminated by the master's own discovery marker, so the master node then removes its own discovery marker and resends the packet in to the ring network. Each node in turn then removes its own discovery marker. In this way, all nodes in the ring see topology information for every other active node.

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